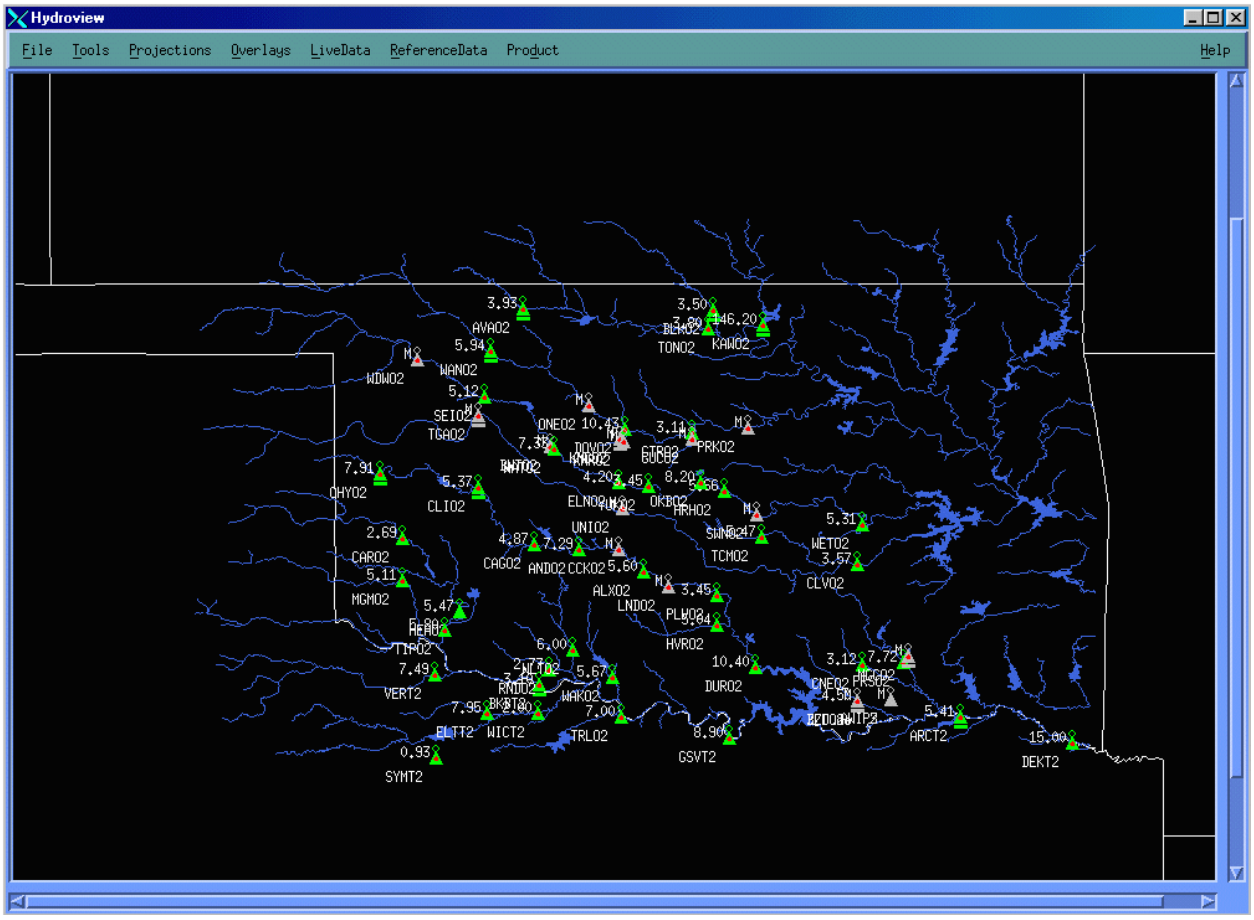
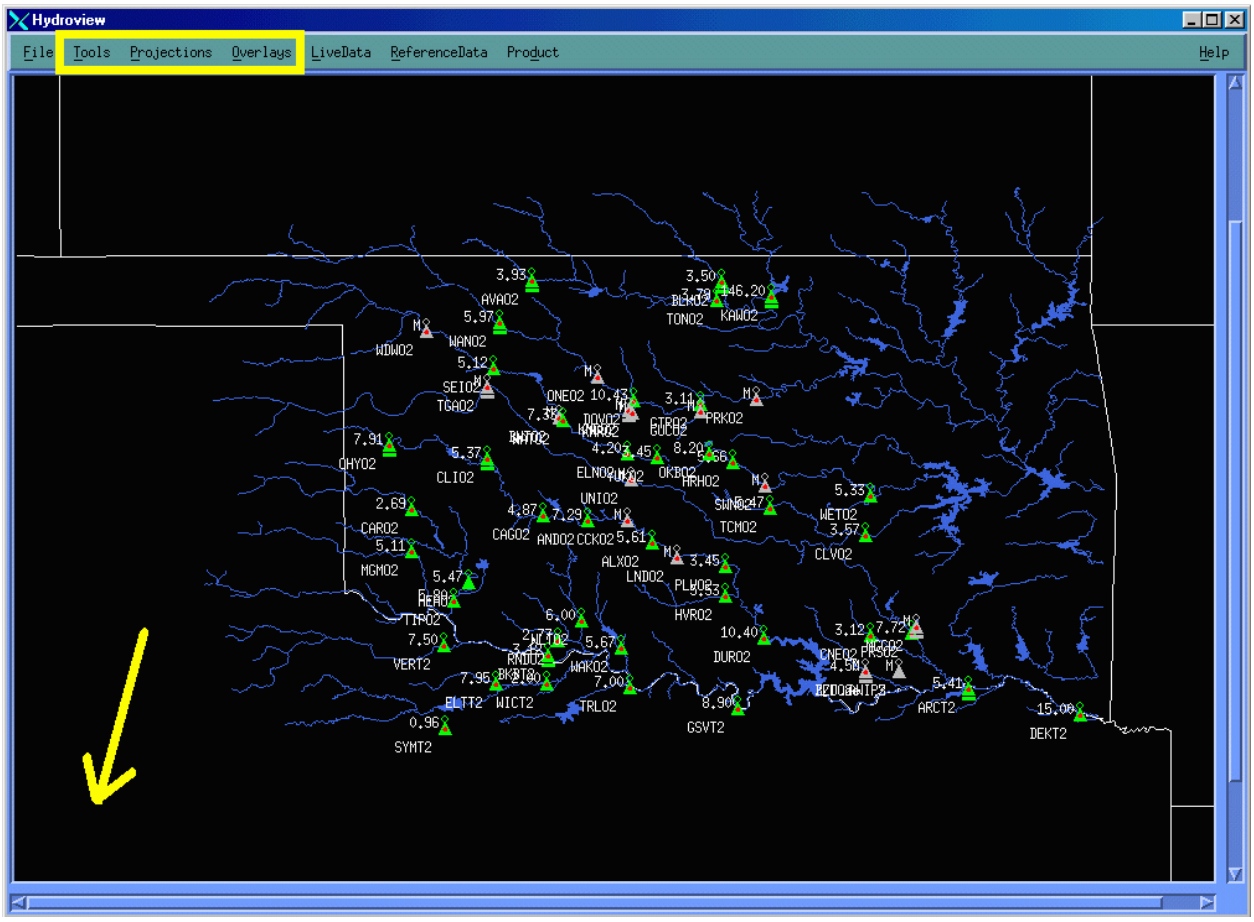
Changes to the Linux HydroView version 5.2.1

In Build 5.2.1, the WHFS applications have been ported to the Linux workstations. The Linux version of HydroView has some additional functionality not present in the Unix version of HydroView. The older version of HydroView (5.1.2) will remain the same with its functions and will continue to be launched from the HP machine. The Linux version of HydroView will retain the "look and feel" of the HP version, but have some functional differences. On the Linux workstations, the hydro application may need to be launched from the surface menu of the D2D screen. The following discussion describes modification found in the Linux version of HydroView.



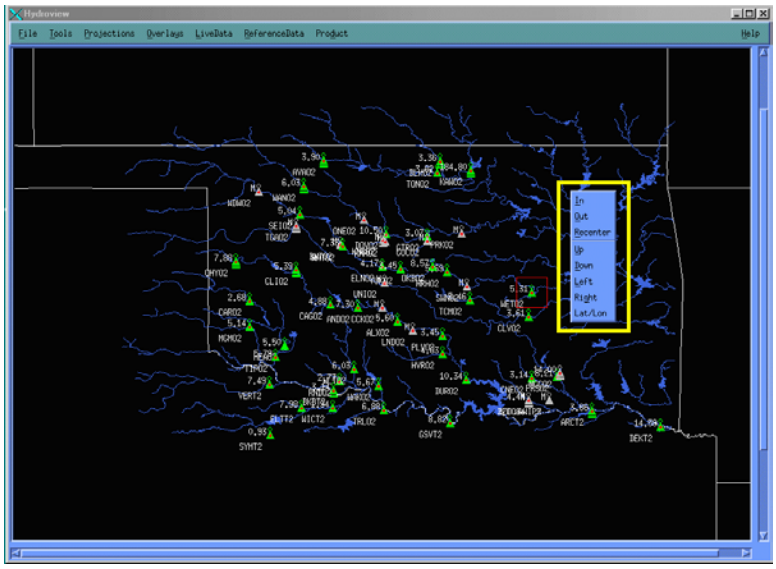
The Linux version of HydroView's main window has remained in general the same. There are a couple new drop down menus which are **Tools**, **Projections**, and **Overlays**. These menus and their new contents will be discussed on the following pages. Another difference with the main window are the missing zoom and recenter functions in the lower left hand corner **(yellow arrow)**. They have been moved to the mouse control and to the **Tools** drop down menu.



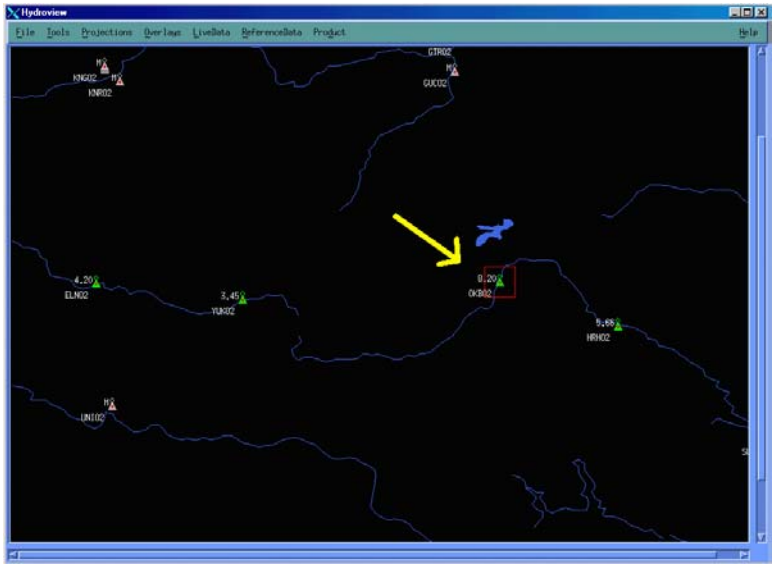
The mouse has been modified to do the following:

1) A left mouse click recenters and zooms out. A middle mouse click recenters and zooms in. This is similar to the D-2D behavior.

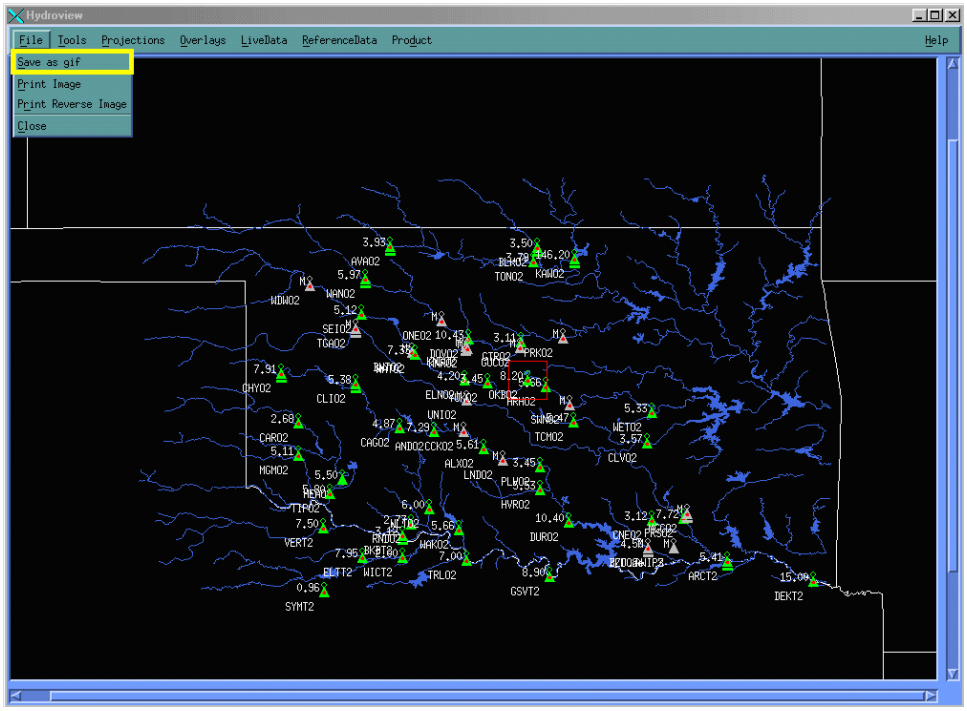
2) With a right mouse click a popup GUI brings a set of options. They include zoom and panning controls. Also there is an option to have the latitude and longitude information "follow" the mouse pointer. This is similar to the D-2D functionality.



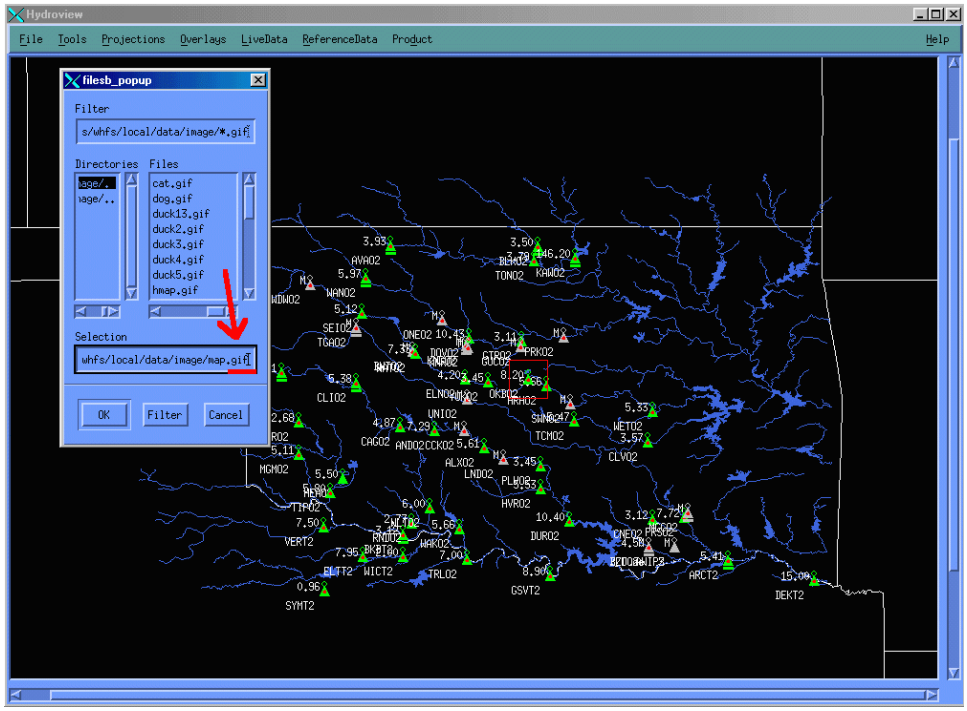
3) A double left mouse click selects a station point on the map. **Note: the user will not be able to activate Time Series any longer from the mouse, but will have to go under LiveData to use this function.**



Under the **File** menu the user may click on **Save as gif** to save a screen. This is a new option.

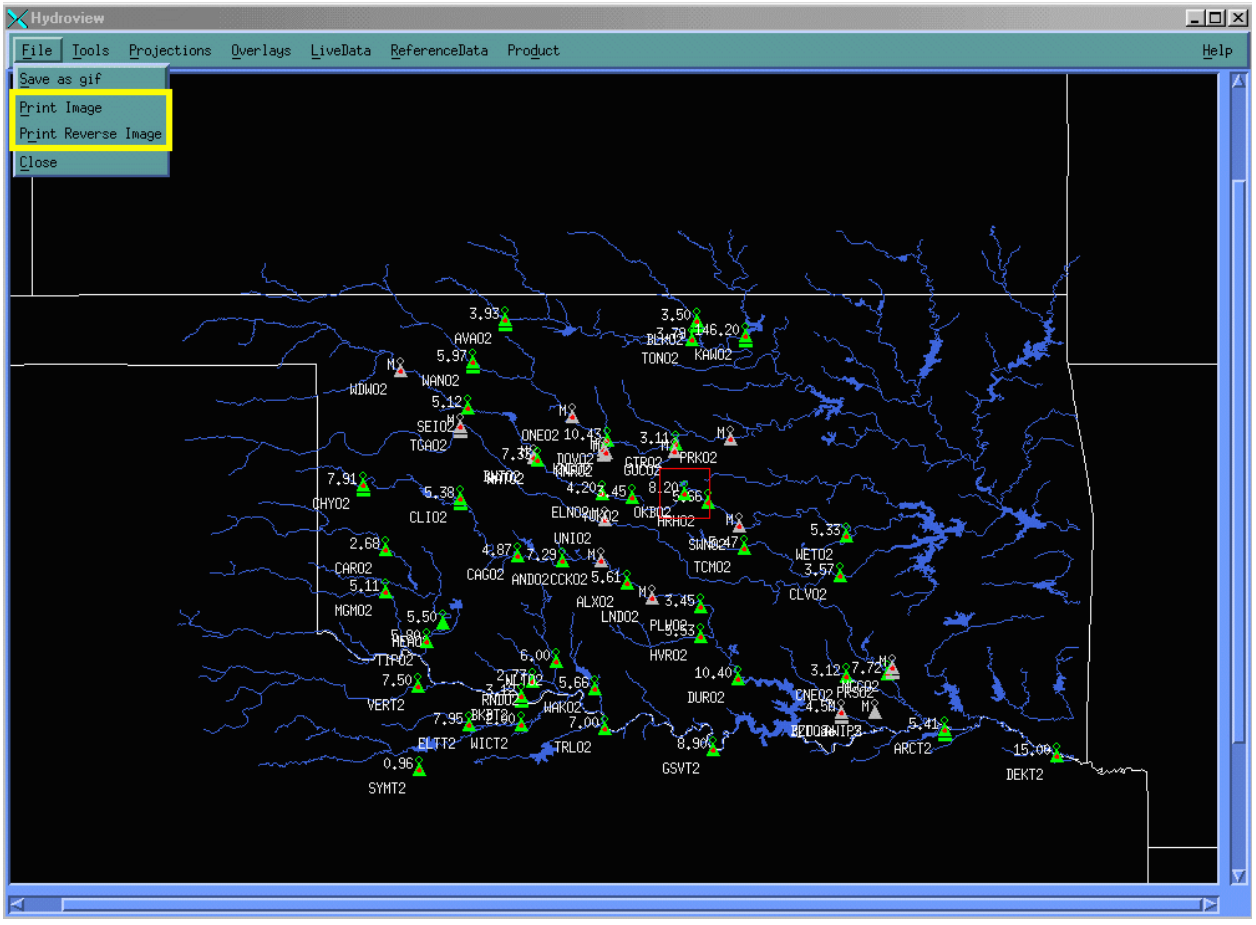


The user **must remember to add** the suffix **.gif** before clicking on OK. The system will not automatically put the suffix on.



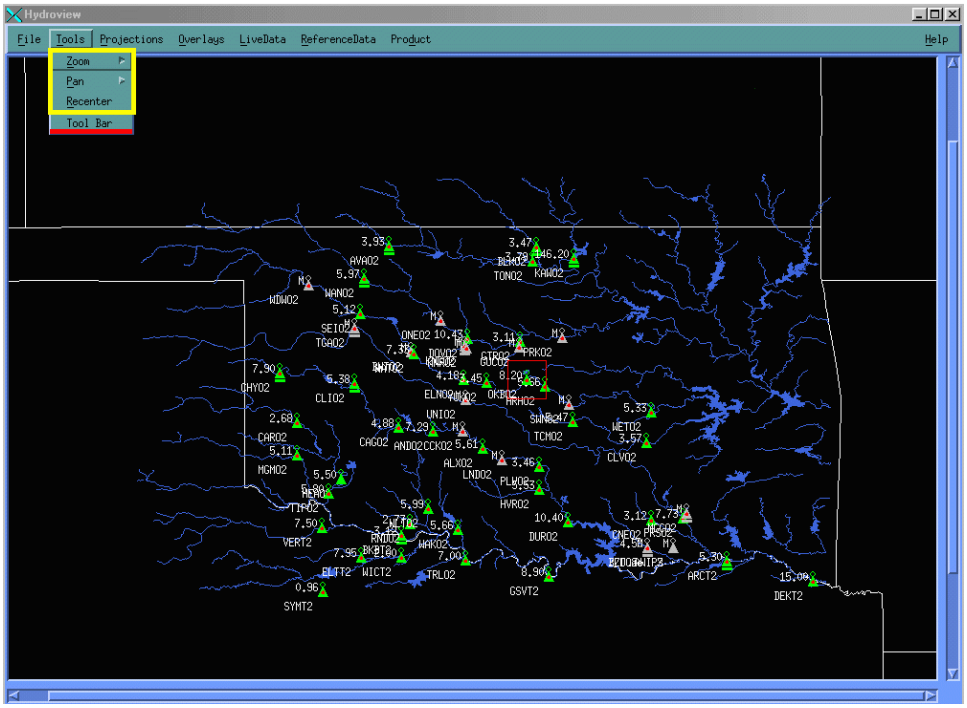
The **Print Image** command will allow the user to print automatically to the default printer. If the user wants to print to a certain printer he/she will have to set it up outside of HydroView before entering the application. To do this the user must be at a command line to type the following command for HP: **export whfs printcommand HP = "lp -dlpX"**, (X is some number for the printer). For Linux: **export whfs_printcommand_LX= "lp -lpX"**.

Note: **whfs printcommand HP** and **whfs printcommand_LX** are added tokens which are located in the **/awips/hydroapps/.Apps_defaults** file. The actual saving and printing of images is controlled via the scripts save_image and print_image, respectively, located in the directories **/awips/hydroapps/whfs/bin**. These files are baseline files which may be overwritten in future AWIPS releases.

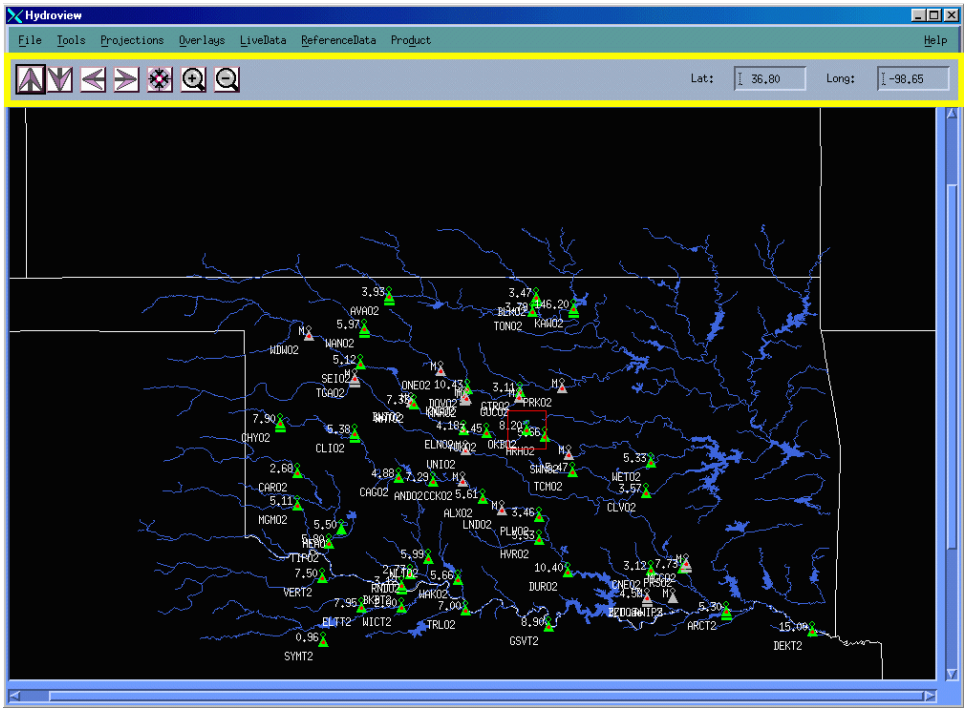


The **Print Reverse Image** command will allow the user to reverse the map's colors. For example, black will become white and white will become black.

The **Tools** menu encompasses the mouse functions: **Zoom**, **Pan**, and **Recenter**.



The last function in the **Tools** menu is **Tool Bar**. This displays arrows to pan up, down, and side to side. There is a bull's-eye for recenter and magnifying glasses to zoom in and out. On the far right the latitude and longitude are displayed as the arrow moves over the map. To get out of the tool bar mode you have to click on **Tool Bar** again.



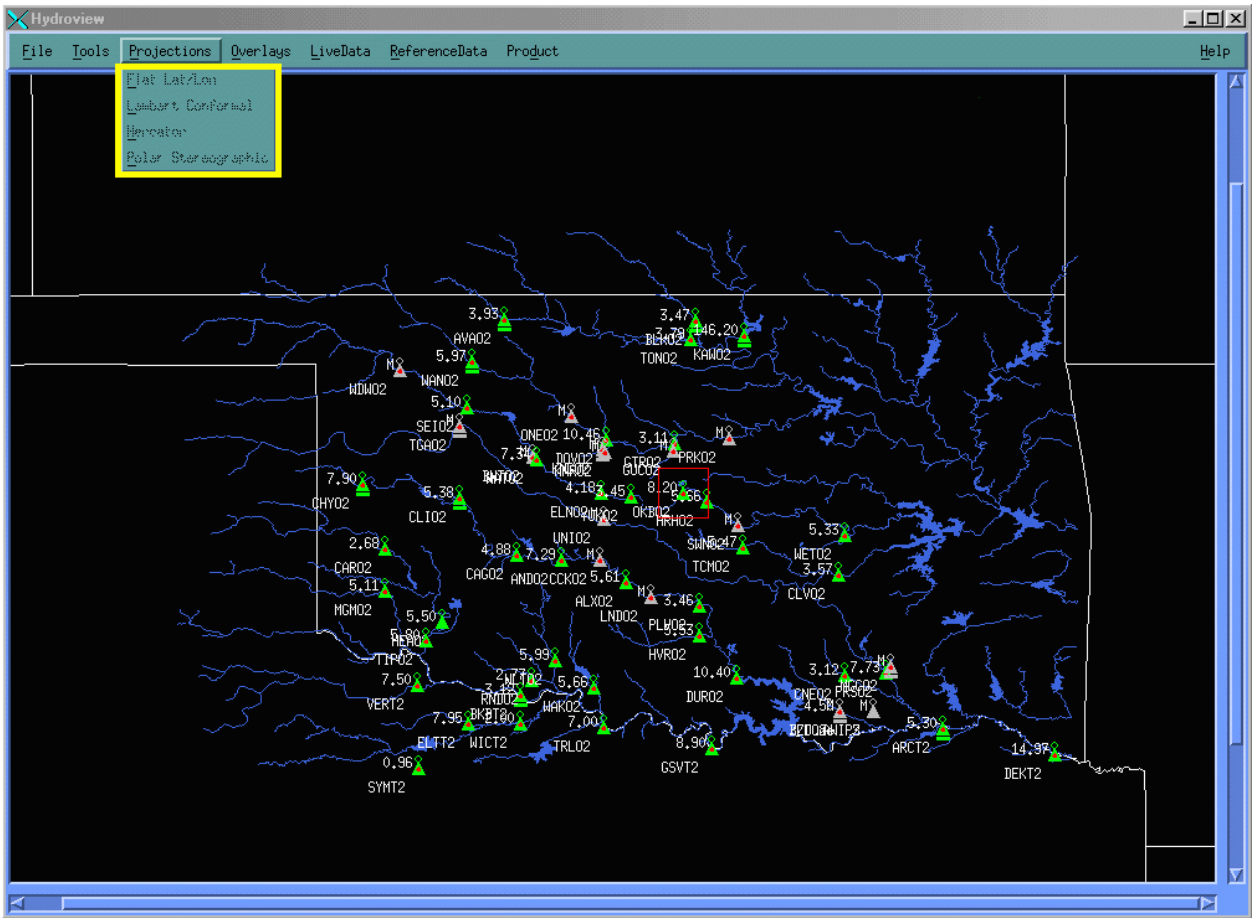
The Projection menu is not yet complete, but will be fully operational in the next few builds. The Flat Lat/Lon will be installed in Build 5.2.2. The Polar Stereographic may be implemented by Build 5.2.2 because it is needed by the MPE. Eventually this menu will allow the user to pick what type of map projection he/she would like to use in viewing the data. The user can choose from the following projections:

1) Flat Lat/Lon

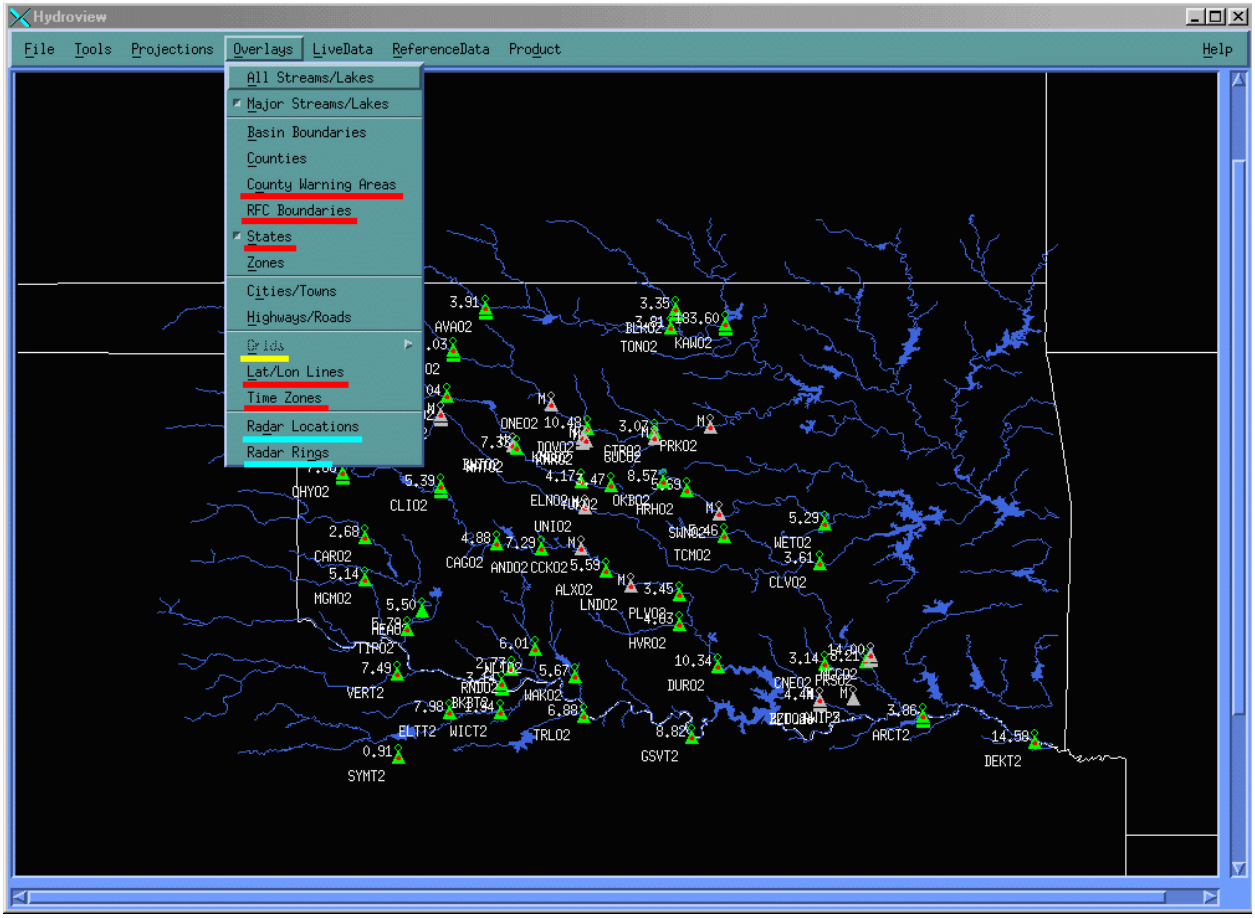
2) Lambert Conformal

3) Mercator

4) Polar Stereographic

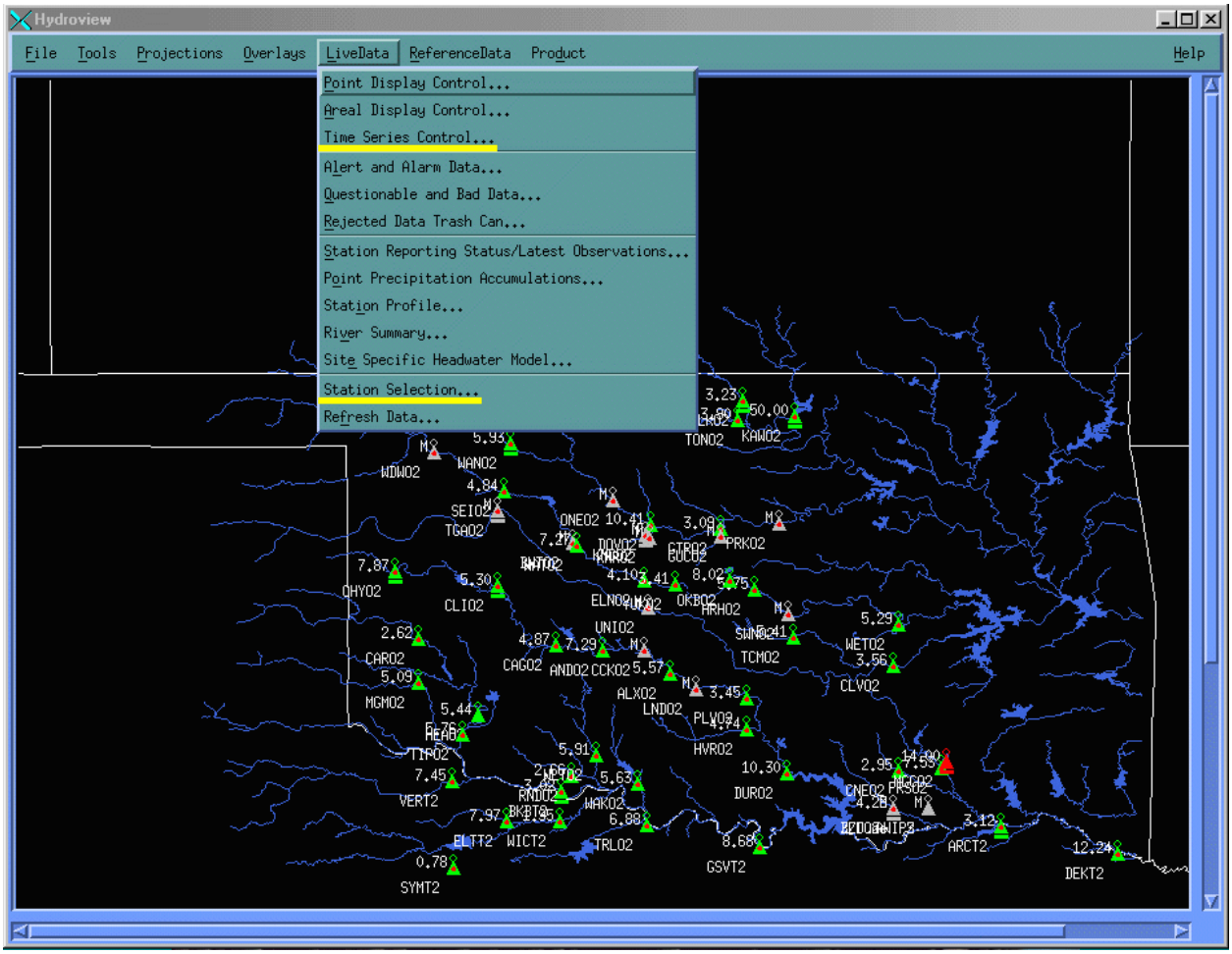


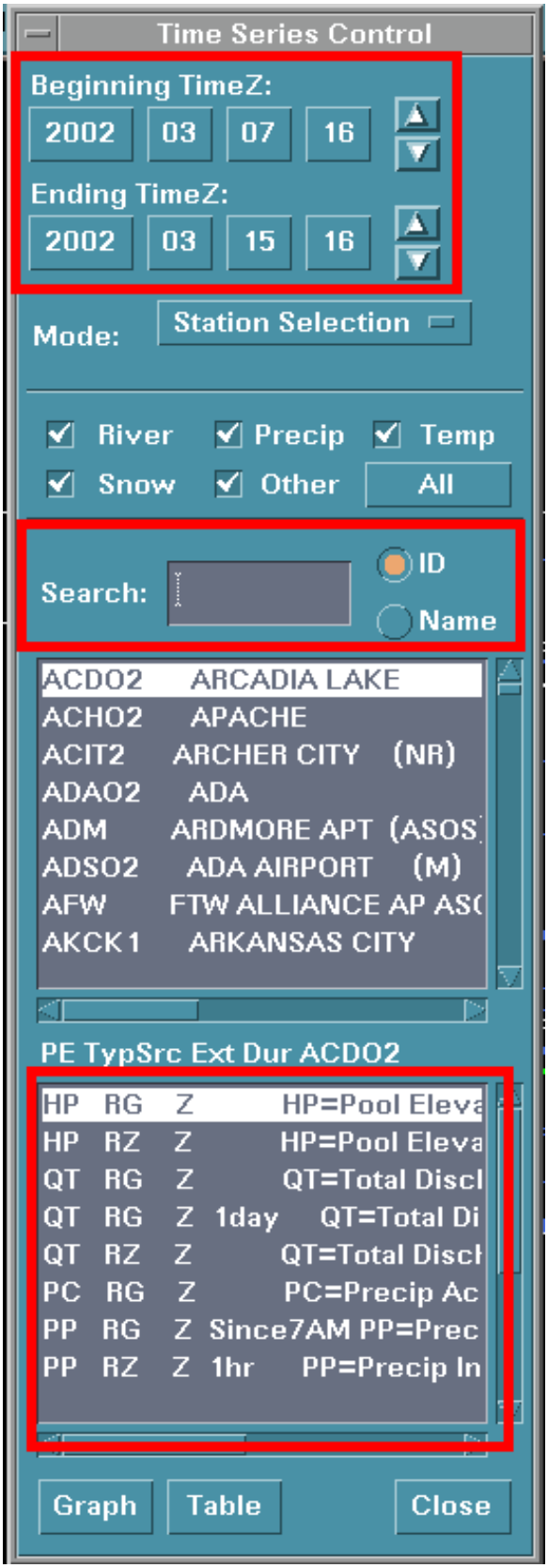
The **Background** menu has been renamed as **Overlays**. With Build 5.2.1 there are more options for the user to design the map. The new options are **County Warning Areas**, **RFC Boundaries**, **States**, **Lat/Lon Lines**, and **Time Zone**. The **Grids** will be functional in the next build. The user will be able to view where the radars are with **Radar Location** or display the radar rings only with **Radar Rings**. This feature has been broken down into 2 separate buttons.



The cities and towns overlays were modified. The user can use D2D datasets instead of the IHFS database City table. The display of these data uses progressive disclosure. This means the more the user "zooms" into the map, the more cities and towns are visible.

There are minor changes in the **LiveData** drop down menu. The **Station Selection...** has been moved from **Overlays** (used to be **Background**) to this menu. It is at the bottom prior to the **Refresh Data...**. The **Time Series** will no longer be activated by double clicking the mouse. The user will have to go to **LiveData** to start the program. There are some changes to **Time Series** which will be discussed on the following pages.



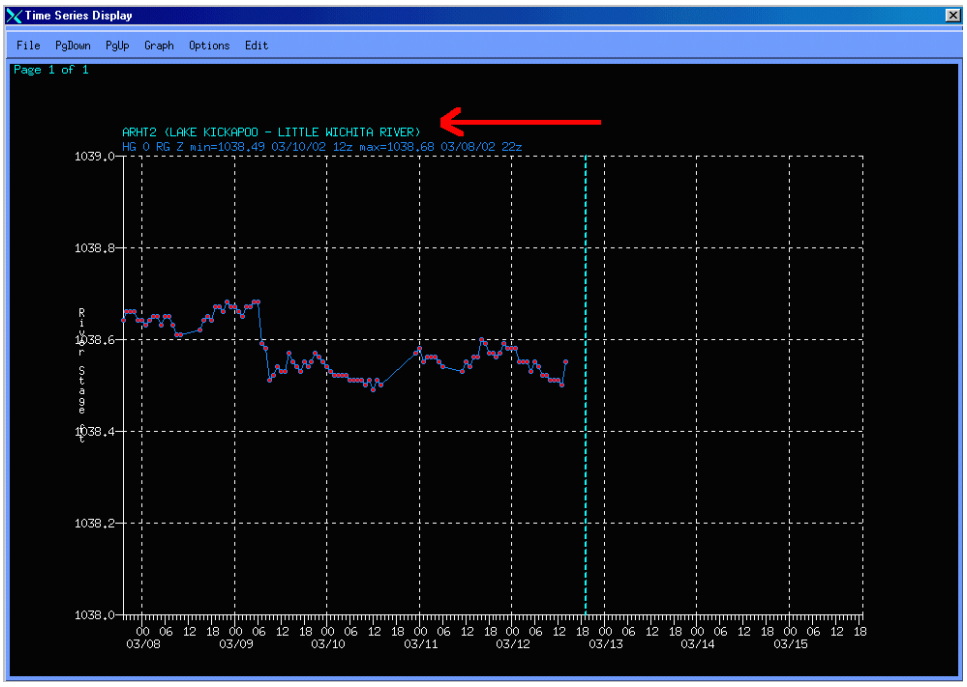


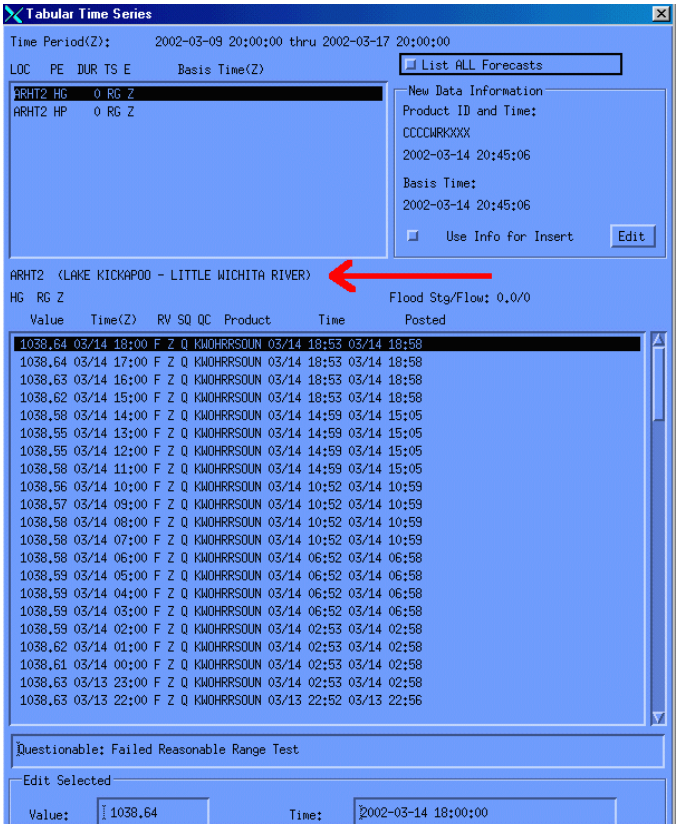
The new changes are in the red boxes to the left on the **Time Series Control** window. In Build 5.2.1 the **Beginning Time Z:** is first and the **Ending TimeZ:** is below it. In the other builds it was reversed.

Another change is how the search is handled. The user can now search for a site by either typing in the **ID** or the **Name**.

The last change on this window is the **SHEF PE** and **TS** code descriptions are now displayed to give the user more information.

Time Series has a minor change to the graphs and tables. The **river** and **station names** have been added to the graphs and tables for clarification.





Other Important Notes:

1) If the user desires to launch the Linux version of HydroView on a Linux machine from the command line instead of the surface menu, he/she can go to the **/awips/hydroapps/whfs/bin** directory and type **start_hydromap** or **start_hv** on the command line. **Note: the directory has been shortened due to the removal of the standard directory.**

2) The user could launch the Linux version of HydroView from an HP machine if so desired. To start the application on an HP machine the user needs to go to the **/awips/hydroapps/whfs/bin** directory and type **start_hydromap** on the command line. **Note: there is no standard directory. The hydro application will look similar to the one on the Linux machine, but will display different colors and textures. There will be no option on the surface menu of the D2D screen to select the Linux version of HydroView.**

3) The HP version of HydroView will remain on the HP machines only. The user can continue to launch this hydro application by selecting it from the surface menu on the D2D screen or by typing **start_hv** on the command line from the **/awips/hydroapps/whfs/bin** directory. **Note: there is no standard directory.**